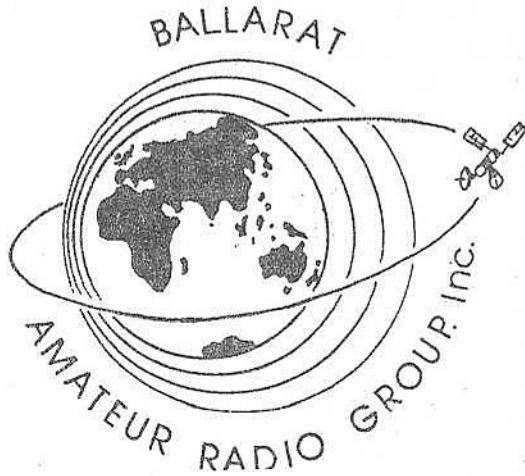


- - OCTOBER 1993 - -

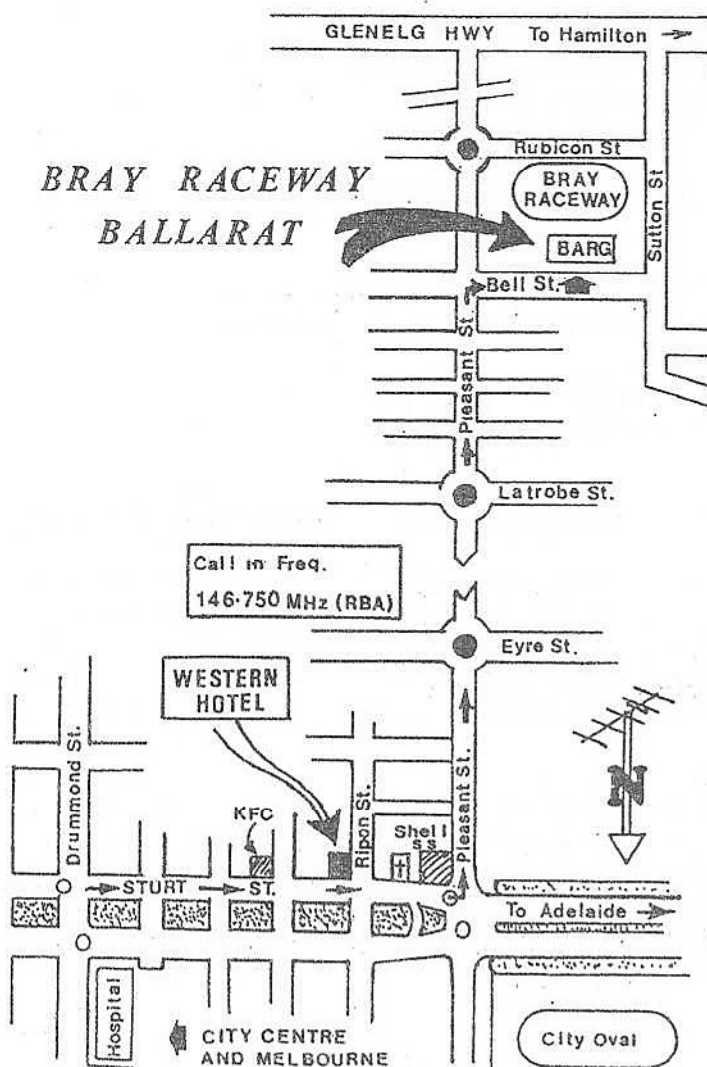


B.A.R.G. NEWS.

Newsletter of the
Ballarat Amateur Radio Group

HAMVENTION

30th. and 31st. October
1993



SATURDAY 30TH: FOXHUNTS START - 3.30 PM.

6.45 PM. TO 6.50 P.M.
2 METRE FM SCRAMBLE
146.425 TO 146.600 MHz Incl.
CALL BACK ON 146.500 MHz.

EVENING MEAL - WESTERN HOTEL
CNR. STURT & RYDON STS.
(START AT 7.00 P.M.)

NOTIFY CO-ORDINATOR FOR BOOKINGS.

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SUNDAY 31ST: DISPLAY AND SALES
OPEN AT 9.00 A.M.

ADMISSION ONLY - \$5.00

ADMISSION (WITH MEAL) - \$10.00

FOXHUNTS AS PER PROGRAMME-START 10.00 AM.

TRESTLES AVAILABLE :
8FT. - \$10.00. 6FT. - \$7.50
FIRST IN FIRST SERVED - BOOK NOW

Ω Ω Ω Ω Ω Ω Ω Ω Ω Ω

CO-ORDINATOR: TOM GEORGE (VK3DMK)
B/H:053-327234 A/H:053-355662

OR BY MAIL TO

P.O. BOX 1261
MAIL CENTRE
BALLARAT 3354

2

BALLARAT AMATEUR RADIO GROUP INC. EXECUTIVE COMMITTEE 1993/4

			HOME	WORK
PRESIDENT	CLIFF BILSTON	VK3CCB	361249	204321
IMM.PAST PRESIDENT	IAN ROBINSON	VK3FD	358031	379175
VICE PRESIDENT	ERNIE TURNER	VK3DET	317604	
SECRETARY	GEOFF SMITH	VK3ADB	332112	
TREASURER	HARRY HEKKEMA	VK3KGL	357563	
ASST.SECRETARY	JIM WRIGHT	VK3CFB	327563	
PUBLICITY/NEWSLETTER	NORM D'ANGRI	VK3LBA	341613	
EDUCATION OFFICER	TOM GEORGE	VK3DMK	355662	327234
TECHNICAL OFFICER	DICK ANTOZIEWICZ	VK3AEX	323273	
MEMBERS' REPS.	MARY CURNOW	VK3FMC	301927	
	REG CARTER	VK3CAZ	417585	

OFFICERS AND COMMITTEES

QSL MANAGER	DOUG RAPER	VK3VBA	323565	
NET CO-ORDINATOR	JOHN HOGAN	VK3CJH	447414	
AWARDS MANAGER	MAURIE BATT	VK3XEX	422245	
PROPERTY OFFICER	JEFF PIGDON	VK3PAP	327041	311211
HAMVENTION CONVENOR	TOM GEORGE	VK3DMK	355662	327234
LIBRARIAN/HISTORIAN	RICHARD VOSS	VK3JFL	342453	
WICEN COMMITTEE	GORDON CORNELL	VK3FGC	392427	391135
	GEOFF SMITH	VK3ADB	332112	
	TOM GEORGE	VK3DMK	355662	327234
TECHNICAL COMMITTEE	DICK FORRESTER	VK3VU	357663	391001
	DICK ANTOZIEWICZ	VK3AEX	323273	
	IAN MC.DONALD	VK3AXH		
	DAVID MC.CONNELL	VK3YNB		
	BEN ORCHARD	VK3TOP		377836
	MAURIE BATT	VK3XEX	422245	

REPEATERS: VK3RBA - 146.750 MHz. VOICE. MT.BUNINYONG (- OFFSET)
 VK3RBS - 146.900 MHz. VOICE. SMEATON HILL (- OFFSET)
 VK3RPC - 144.750 MHz. PACKET MT.WARRENHEIP
 VK3RBU - 438.475 MHz. VOICE MT.HOLLOWBACK

CLUB NET: THURSDAY NIGHTS AT 8 PM. (8.30 PM.DURING DAYLIGHT SAVING)
 FREQ: 3.610 MHz.+/- QRM.

2 METRE SCRAMBLE: SUNDAY NIGHTS AT 7.50 PM. FREQ:146.425 TO 146.600 MHz.INCL.
 CALL BACK HELD ON BALLARAT REPEATER VK3RBA (146.750 MHz.)

MEETINGS: LAST FRIDAY OF EACH MONTH (EXCEPT DECEMBER) AT 7.30 PM.
 VENUE: BALLARAT COMMUNITY EDUCATION CENTRE
 HOPETOUN ST. BALLARAT

FOX HUNTING: AS ARRANGED DURING YEAR

CORRESPONDENCE
 TO

NEWSLETTER ARTICLES
 TO

LIFE MEMBERS			
MAURIE BATT	VK3XEX	KEVIN HUGHES	VK3WN
IAN MC.DONALD	VK3AXH	PHIL SEDDON	VK3AQM
GEORGE SMALL	VK3DKJ(SK)	STAN WIDGERY	VK3SE
JIM WRIGHT	VK3CFB		

THE SECRETARY
 B.A.R.G. INC.
 P.O. BOX 1261
 MAIL CENTRE
 BALLARAT 3354

N.D'ANGRI -VK3LBA
 29 LAWRENCE ST.
 ALFREDTON
 BALLARAT 3350
 PHONE 053 341613

DISCLAIMER: While every care is taken in the recording of events & articles in this newsletter, the B.A.R.G.Inc. and it's officers do not accept any liability for any disputed articles or comments. Views expressed are not necessarily those of the Editor or B.A.R.G. officers. Projects are assumed to have been validated by contributors and are presented in good faith. Reproduction of articles by other clubs is permissible, subject to acknowledgement of the source.



MINUTES OF B.A.R.G. MEETING HELD 27TH.AUGUST 1993.

The meeting opened at 7.45 pm. with President Cliff VK3CCB in the chair. Visitors were welcomed and the following apologies were accepted. DOK, BNC, AEX, FMC, LMC, CJH (ill), AXH, FR, FGC, AGD, DS, SE, NIZ, JFL & VU.

Congratulations to Ben VK3TOP on becoming a new father.

MINUTES of the July meeting as circulated were confirmed.

DMK/CAZ

TREASURER'S REPORT was accepted as reported.

DCS/FD

SCRAMBLE Favourable report on activity, however there is some concern over interference being experienced on 146.500 MHz.

NET Wow! 17 stations checked in.

TECHNICAL RBA replacement on target.

AWARDS 3 issued this month.

VK3XEX

EDUCATION 4 candidates sitting theory next exam. 1 Full Call-3 Novice. VK3DMK

HAMVENTION Will be held at Bray Raceway 30/31st.October.

Dinner at Western Hotel 7 pm.on Saturday.

Discussion on logistics.

Committee meet Wednesday 1st.September.

VK3DMK

GENERAL BUSINESS

The "Ladies Night" will be held at the Blue Bell Hotel on Wednesday 6th.Oct.

JOTA will be held on 16th & 17th October at Pax Hill.

Re-organisation of the Library. Outstanding books to be returned.

\$300 of funds approved for Broadcast/W.I.A. Linking project. KAW/AAI

Advice on Renewal of licence from SMA.

Copies of SHF Antenna available.

Passing of VK3BSB.

Proposed Club speakers.

New Award proposal to be investigated.

The meeting closed at 8.25 pm.

NEXT MEETING 24th.September.

73 de Geoff VK3ADB

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MINUTES OF B.A.R.G. MEETING HELD 24TH.SEPTEMBER 1993.

The meeting opened at 7.45 pm.with President Cliff VK3CCB in the chair.

27 members were present and the President welcomed 2 visitors Jordan and David to the meeting.

APOLOGIES were received on behalf of the following: DOK, BNC, VU, AEX, YMW, FR, AXH, AAP, AAI, FRO, ASU, FMC, LDC, LBA & Val, DS, YNB, Wendy, DS.

MINUTES of the August meeting as circulated were confirmed.

DCS/CAZ

TREASURER'S REPORT Accepted as reported.

KGL/EF

NET John VK3CJH was welcomed back after illness. Check ins for month - 36

VK3CJH

SCRAMBLE Ian VK3EF is accepting log sheets.

K3EF

EDUCATION Bob VK3BNC was nominated to the Examination Panel.

VK3DMK

TECHNICAL Projects are on target.

QSL CARDS 142 cards were received and 64 sent out. Some cards received were dated as long ago as August 1981.

It is intended to organise a display board of rare QSL cards.

VK3VBA

WICEN Inspirational and informative report from Gordon VK3FGC.

JOTA via satellite.

Displan - Creswick Group.

Training Sessions and repercussions of inaccurate logs.

Callout was imminent re recent floods.

Uniforms available again - Newsletter to indicate WICEN requirement. Some items are available from 'Aussie Disposals'.

MOTION - Gordon VK3FGC to run training sessions after club meetings

FGC/DMK

HAMVENTION Report from VK3DMK indicates most tasks are in hand. He seeks further volunteers so give him a call and offer your skills.

DINNER NUMBERS - It is critical that you advise Tom by the deadline of 22nd.October if you require a booking for the dinner.

..... PTO

MINUTES OF SEPTEMBER MEETING (CONTINUED)

GENERAL BUSINESS

- * Return of Monday Fox Hunts. Ken VK3PDA & Trevor VK3NTA to organise.
- * Letter of thanks re support of D.O.C. XDQ/FD
- * New Venue for 'Natter Night'. The Staff Room at Education Centre Hopetoun St.
- * \$250 allocation for purchase of appropriate books at Hamvention for adding to B.A.R.G. Library. JFL/BNC/CAZ to validate purchases. XDQ/WN
- * WN to investigate QST subscription.
- * Travelling Members to give club a list of Sked frequencies and times.
- * Show and tell segment.- Bring latest project to meetings and brag about it.
- * Information sheets re 27MHz to 50MHz conversions are available from Doug V3KAY
- * Station on Mellish Reef logged by members.

Meeting closed at 9.20 pm.

NEXT MEETING 29th October 1993. (Hamvention Weekend.)

73 de Geoff VK3ADB

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WICEN UNIFORMS

WICEN has an approved formal uniform so as to present a common and identifiable image. The complete dress uniform comprises the following items (suppliers are shown in brackets).

- Olive Green trousers or skirt (Yakka)
- Putty coloured shirt or blouse with epaulettes (Yakka)
- Howard Green (Army) jumper (Yakka)
- Green Services jacket (made by Spicers, supplied by Yakka)

A working uniform may be more to your liking - fawn overalls either bib and brace or the combination set. If you choose the former, a shirt is to be worn with the appropriate badges.

To assist you, by making bulk purchases, your Regional co-ordinator Gordon VK3FGC will accept orders each quarter and the items will be purchased in quantity at reduced rates. Where required the WICEN badges will be affixed by the supplier.

Order forms are issued in your current WICEN Newsletter.

As indicated in the September minutes, you may be able to obtain some items from other sources, in which case the WICEN badges are available through Gordon.

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NATTER NIGHTS

Please note that for the next three months the venue for the popular NATTER NIGHTS will be the STAFF ROOM at the Education Centre in Hopetoun St. Ballarat. (The same complex as the monthly meeting).

Come along and have an informal natter with old and new club members, and don't forget to bring the YL or the XYL as they enjoy the relaxed and friendly atmosphere as well. Coffee is provided, but a small plate of 'goodies' to grace the table would be appreciated. See you there on Friday 8th. October at 7.30 pm.?

FOR THE NOVICE AND OTHERS

Most of us have a fairly clear idea of what Volts, Ohms, and Amps are.

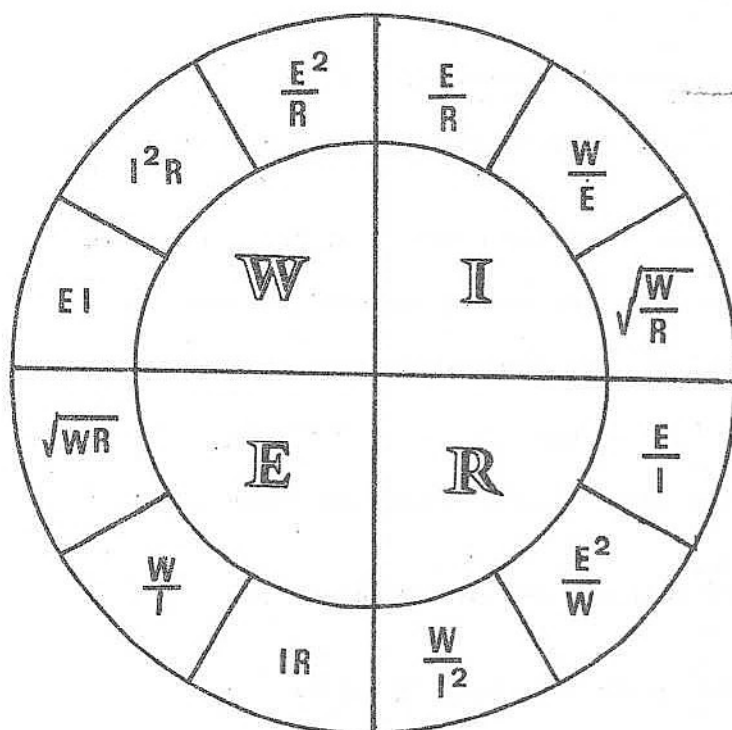
But where people often run into difficulty is when they try to make use of the formulae which connect these three things together.

Most can remember that the current (I) equals the voltage (V) divided by the resistance (R), but after that we can get confused. For those not used to algebra it is not an easy thing to transpose one formula to another. A further complication comes when we are trying to consider the power in watts (W) developed in a circuit.

In order to help the Novice (and others) to become familiar with the formulae involved we can refer to the chart below.

Inside the inner circle is the parameter we want to get, and on the outside in the three minor segments are the three different combinations of current, power, voltage or resistance which will give the answer. There are a total of twelve relationships in all.

From 'ZERO BEAT' - JUNE 1978.



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WELL DONE !

Congratulations to the following B.A.R.G. Members:

Ben (VK3TOP) and his XYL on the arrival of their new harmonic.

Wendy - A pass in Novice Theory.

Werner - Novice Licence (VK3MJX)

Dean - Novice Licence (at -14yrs.)

Dick (VK3ARK) for his election as a Life Member of the Geelong Amateur Radio Club for his "profound understanding of all of the facets of radio communications" and despite a hearing impairment Dick "maintains support for the club and takes pride in the appearance and facilities available to club members."

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EDITOR'S HEADACHE

Getting out a magazine is no picnic.
If I print jokes, people say I am silly.
If I don't, they say I am too serious.
If I clip things from other magazines,
I am too lazy to write it myself.
If I don't, I am stuck with my own stuff.
Now, like as not, some guys will say I
swiped this from some other magazine,
That's right, I did.*

* From a well known journal which did not mention the source either.

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MURPHY'S LAW



Any one who is designing or building anything should make themselves familiar with Murphy's Law.

The basic law in mathematical form states " $1 + 1 \phi = 2$ " where the symbol ' ϕ ' means "hardly ever".

Here are some detailed applications of this law.

If a project requires "n" components, there will be "n-1" components available, and the one missing will be most important and have no possible substitute.

The impedance of your new antenna will always be outside the range of your ATU.

"Interchangeable" parts aren't.

Any wire cut to length will be too short.

The probability of error is directly proportional to the amount of trouble it will cause.

A dropped tool will land where it can do the most damage. (This is also known as the Law of Selective Gravitation).

Components which must not and cannot be assembled wrongly, will be.

Any expensive transistor protected by a fast blowing fuse will protect the fuse by blowing first.

The more tidy the construction of a project, the less likely it is to operate.

Intermittent faults only occur after the unit has been completely assembled.

The most delicate component will always fall off the bench.

No matter how much wire is on a spool it is always 10cm. too short.

The breaking strain of antenna wire is always 5kg. less than the force required to hoist it.

Anything works as an antenna to some extent, but nothing works as well as it should.

A sensitive DC meter will always be overloaded and wired in backwards.

BE WARNED -- Not that it will make any difference.

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TELEPHONE BBS

VK3IBM (KEN) advises that he is now operating a TELEPHONE BBS SYSTEM.

The system has over 4000 files which can be accessed 24 HOURS A DAY

1200 to 14,400 BAUD. You will find it on 053-347954.

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Sometimes it's easier to read between the lines than to follow the text.



7

This intriguing article is taken from the Newsletter of the Hervey Bay Radio Club, with thanks to the Editor, Andrew VK4CRT

UNEXPLAINED RADIO PHENOMENA

Radio transmission and reception has only been known to man for less than 100 years, however we have made startling progress in the field and mankind is at a stage where he fully understands the mechanics of radio propagation. Every so often, however, we find a well documented case which either proves that mankind does NOT know as much as he thinks he does, or that there is some other as yet unexplained force at play. All cases mentioned below are true and have been well documented. Please note that this is NOT the April issue and I am NOT making this up....

The first known recorded case of the unusual echoes we sometimes find on radio transmissions happened in Holland in 1927. A replica echo from a test broadcast which took from 3 to 30 seconds was noticed at regular intervals over a period of several years. The normal reflection of radio waves from the ionosphere takes a fraction of a second to travel the circumference of the globe, depending on the frequency in use (Editors note; E.M.E. echoes received from the moon can take from 2 to 3 seconds depending on how far away the moon is at the time, so in the above mentioned case we can rule out moon echoes...). The Dutch transmissions were broadcast on 150 metres (around 2MHz) and later on 31 metres (about 9 MHz) and the echo times were identical.

What caused these echoes? If reflection from a celestial body was the cause, how did the signals penetrate the ionosphere and how did they manage to return again? Even at 7 MHz signals are not known to be able to penetrate the ionosphere; the 40 metre beacon from OSCAR-8 was NEVER heard for this reason. The phenomena has been observed at odd intervals over the years, with the last known documented case being from Germany and Austria in 1963.

Case 2. During 1953, some UK television viewers were startled to see the identification card of the US station KLEE on their screens during a BBC church service. The signal was so strong that it did completely override the powerful local BBC stations and remained on screen long enough to be photographed by several people.

The BBC engineers dismissed it as freak propagation (the MUF is thought to have reached over 75 MHz in 1957 during the biggest ever recorded sunspot cycle), however it was later found that the TV station KLEE *went off the air permanently in 1950!* In fact, the station had been completely dismantled after being bought out by a rival.

When the BBC learned of this, they thought that a pirate was responsible. Their investigations turned up a very disturbing fact;- the broadcast was VERY strong. Strong enough to override 15 powerful BBC transmitters located from one end of England to the other. Despite intensive monitoring by the government, the transmission lasted only 4 minutes and was never repeated.

The FCC in the United States were shown one of the photographs taken of the phantom station and they confirmed that it was identical to the original KLEE test card in every respect, *even down to a small blemish in one corner!* So, examining the facts:-

- The broadcast was viewed only over England which uses a different transmission standard to that of the USA (PAL vs NTSC).
- The station KLEE was only a low powered Texas station, yet the BBC transmitters it overrode were much more powerful.
- It was viewed 3 years after KLEE's last broadcast, and it was never seen again.

Now let me quote the explanation given by the BBC's Chief Engineer (at the time) when he was asked to explain the mystery;

"We are confronted by circumstances which are at variance with all accepted facts of television transmission. It is unthinkable that these signals could have been circling the Earth for the period since the station last transmitted them. It is physically impossible that they could have been reflected by any celestial body in space at such a vast distance and received with such power: power far beyond the limits of the original station. That leaves us with one remaining possibility, however bizarre, that the television signal was transmitted to us with intelligence and with a purpose, from a source and with an object presently unknown."

*The above article was based on an article in Radio ZS, November 1977

MORE UNEXPLAINED RADIO PHENOMENA (Continued.)

By Andrew (VK4CRT)

Now for some of my own comments. In researching this article, I found a few more examples of this type of unusual phenomena:-

Firstly, there is the case of the air-traffic controller working at a large US Navy base, who received a "Mayday" call from a trainee pilot. This wasn't at all unusual, - trainee pilots were always getting into bother and having to eject into the sea, - so he took the pilots name and position and relayed them to Navy Search and Rescue, directing SAR to send a helicopter out to pick the pilot up.

But within minutes of calling the SAR team, he found himself in the hands of Navy Intelligence being questioned over the incident. Was he sure about the position? Was he CERTAIN of the callsign?

Why all the fuss? Well, it seems that the callsign and position were all correct, but that the pilot who transmitted that message was rescued, but not that day. He was, in fact, rescued some 20 years earlier. It seems that our Air Traffic Controller received a message transmitted during World War Two, some 20 years earlier.....

The Radio Officer on board the luxury liner the QEII was startled to hear the ships own callsign GBTT, being used by another station. He took careful notes in the logbook, and it was later discovered that the mystery signals had originated from the QEII's predecessor, the Queen Elizabeth. It was later discovered that the message picked up by the QEII had actually been transmitted by her predecessor many years earlier as evidence of the signal was found in the original ships log...

One amateur station on Brisbane (who I will not name) discovered a long echo on the signal of a Bundaberg station whilst on 2 metres. The unusual thing about this is that to even hear an echo on the two metre band would mean that the signal is being reflected off a large celestial body, as any echoes from earthly objects would be returned too quickly to notice. For a station to even notice the echo it would have to travel around 3000Km and back again...

In 1973 the (then) Soviet newspaper "Tass" reported that the Director of the Gorki Radio Research Institute had received signals "of an unusual nature" which did not in any way resemble the random natural emissions from the far distant galaxy's which they were observing. Other notable CIS (formerly the USSR) scientists have reported similar progress in searching for intelligent transmissions. Dr Kardashev and Professor E. Troitsky have received signals described as being of regular character groups lasting from 2 to ten minutes duration. In 1975 the Ural Research Station, - situated high in the Ural Mountains with a radio telescope twice the size of Jodrell Bank (UK), - reported hearing signals of not natural, but artificial origin and sent "by very sophisticated radio equipment..

The first radar reflections from the moon were received in 1946 on a frequency of 111MHz during the militaries "PROJECT DIANA".

The US Navy established a two-way digital communications path between Hawaii and Washington DC via the moon in the early 1960's using 400 Megawatts of power (400,000,000 Watts!) at each end of the circuit. Amateur radio operators, by comparison have been bouncing signals off the moon since about 1961...

In March 1961, man was first able to bounce a signal off the surface of the planet Venus. Using a wavelength of 2388 MHz and 12,600 Watts output power, the echo from the Deep Space Instrumentational Facility in the USA was received 6.5 minutes after first transmission. Man has also bounced signals off the Sun, as well as Mercury.

HAMVENTION - HOME BREW COMPETITION

An anonymous donor has donated a generous amount to the club to sponsor a 'Home Brew' competition at the Hamvention.

There will be two categories (1) for amateurs licenced 2 years or less or unlicenced.
(2) for amateurs licenced in excess of two years.

To qualify for entry the projects offered must be Amateur Radio orientated and be the work of the entrant.

The project offered can include modifications to existing equipment, kit construction, new or experimental equipment design, and of course straight out fully home brewed project construction.

To enter simply bring your gear along to the Hamvention and contact Tom VK3DMK.

**B.A.R.G. DATES
FOR 1994**

GENERAL MEETINGS

JANUARY	28th.
FEBRUARY	25th.
MARCH	25th.
APRIL	29th.
MAY	27th.
JUNE	24th.
JULY	29th. (AGM)
AUGUST	26th.
SEPTEMBER	30th.
OCTOBER	28th.
NOVEMBER	25th.
DECEMBER	NONE

NATTER NIGHTS

JANUARY	NONE
FEBRUARY	11th.
MARCH	11th.
APRIL	8th.
MAY	13th.
JUNE	10th.
JULY	8th.
AUGUST	12th.
SEPTEMBER	9th.
OCTOBER	14th.
NOVEMBER	11th.
DECEMBER	9th.

1994



OUR RADIO GROUP

1994 CALENDAR

JANUARY

SUN...		2	9	16	23	30
MON...		3	10	17	24	31
TUE...		4	11	18	25	
WED...		5	12	19	26	
THU...		6	13	20	27	
FRI...		7	14	21	28	
SAT...	1	8	15	22	29	

FEBRUARY

SUN...		6	13	20	27
MON...		7	14	21	28
TUE...	1	8	15	22	
WED...	2	9	16	23	
THU...	3	10	17	24	
FRI...	4	11	18	25	
SAT...	5	12	19	26	

MARCH

SUN...		6	13	20	27
MON...		7	14	21	28
TUE...	1	8	15	22	29
WED...	2	9	16	23	30
THU...	3	10	17	24	31
FRI...	4	11	18	25	
SAT...	5	12	19	26	

APRIL

SUN...		3	10	17	24
MON...		4	11	18	25
TUE...		5	12	19	26
WED...		6	13	20	27
THU...		7	14	21	28
FRI...	1	8	15	22	29
SAT...	2	9	16	23	30

MAY

SUN...	1	8	15	22	29
MON...	2	9	16	23	30
TUE...	3	10	17	24	31
WED...	4	11	18	25	
THU...	5	12	19	26	
FRI...	6	13	20	27	
SAT...	7	14	21	28	

JUNE

SUN...		5	12	19	26
MON...		6	13	20	27
TUE...		7	14	21	28
WED...	1	8	15	22	29
THU...	2	9	16	23	30
FRI...	3	10	17	24	
SAT...	4	11	18	25	

JULY

SUN...		3	10	17	24	31
MON...		4	11	18	25	
TUE...		5	12	19	26	
WED...		6	13	20	27	
THU...		7	14	21	28	
FRI...	1	8	15	22	29	
SAT...	2	9	16	23	30	

AUGUST

SUN...		7	14	21	28
MON...	1	8	15	22	29
TUE...	2	9	16	23	30
WED...	3	10	17	24	31
THU...	4	11	18	25	
FRI...	5	12	19	26	
SAT...	6	13	20	27	

SEPTEMBER

SUN...		4	11	18	25
MON...		5	12	19	26
TUE...		6	13	20	27
WED...		7	14	21	28
THU...	1	8	15	22	29
FRI...	2	9	16	23	30
SAT...	3	10	17	24	

OCTOBER

SUN...		2	9	16	23	30
MON...		3	10	17	24	31
TUE...		4	11	18	25	
WED...		5	12	19	26	
THU...		6	13	20	27	
FRI...		7	14	21	28	
SAT...	1	8	15	22	29	

NOVEMBER

SUN...		6	13	20	27
MON...		7	14	21	28
TUE...	1	8	15	22	29
WED...	2	9	16	23	30
THU...	3	10	17	24	
FRI...	4	11	18	25	
SAT...	5	12	19	26	

DECEMBER

SUN...		4	11	18	25
MON...		5	12	19	26
TUE...		6	13	20	27
WED...		7	14	21	28
THU...	1	8	15	22	29
FRI...	2	9	16	23	30
SAT...	3	10	17	24	31

(AGM)

NOTE: DATES ARE ALWAYS SUBJECT TO REVIEW BUT IF ANY ALTERATIONS ARE MADE THE ADJUSTMENT WILL BE NOTIFIED THROUGH THE NEWSLETTER.

The following is a list of books currently recorded in the B.A.R.G. Library.

L
I
B
R
A
R
Y

TITLE	AUTHOR/PUBLISHER
U.H.F. COMPENDIUM	
WIRE ANTENNAS	
U.H.F./ V.H.F. MANUAL	JESSOP
1988 A.R.R.L. HANDBOOK.	A.R.R.L.
THE RADIO AMATEUR'S ANTENNA HANDBOOK	ORR & BROWN
TEST EQUIPMENT FOR THE RADIO AMATEUR	R.S.G.B.
H.F. ANTENNAS FOR ALL LOCATIONS (2 COPIES)	L.A. MOXON
MAINTENANCE SERVICE MANUAL FT101 SERIES	YEASU
LOW BAND DXING	A.R.R.L.



The above list is current as at 1st. October 1993. If any members wish to donate, loan, borrow or return books could they please contact me so that I can arrange the transaction.
I can be contacted on 053-342453 during the day, on 2 Metres most evenings, or by Packet (VK3JFL @ VK3IBM).

I am also looking for information to start a file of Amateur related projects such as Power Supplies, Antennas, Modifications etc. which may be of interest to club members. I would be grateful to receive any articles you may have. (Maybe we could publish some too Richard - ED.)

73 de VK3JFL Richard (B.A.R.G. Librarian)

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DOWN MEMORY LANE

B.A.R.G. Newsletter Volume 1 No.4 December 1978.

PRESIDENT'S PAGE

The Ballarat Amateur Radio Group and the Geelong Amateur Radio Club met at Steiglitz on Sunday 2/12/78. The event was enjoyed by all with approximately ten Ballarat hounds and a similar number from Geelong.

The hunts proved very interesting and enjoyable with Geelong winning the day, with Dennis VK3BQZ First, and Daryl VK3AQR in second place. Ballarat's only scores were thirds in the first and last events by your President.

Our thanks to Geoff VK3NLZ, and Peter VK3AWY for providing very tricky hunts. Next year it's out with the sniffers and bring the cup back to Ballarat.

Thanks to all members and friends who attended.

LACHLAN VK3BPK

WANTED TO BUY

HAVE YOU A 2 METRE FM MOBILE RIG YOU WISH TO DISPOSE OF ?

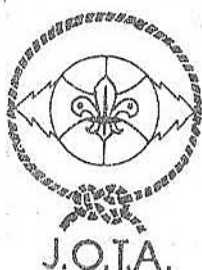
DEAN (VK3???) IS LOOKING FOR A FAIRLY RECENT UNIT IN GOOD CONDITION SO THAT HE CAN AIR HIS NEW LICENCE ON 2M..

DEAN CAN BE CONTACTED ON 053-332 741.

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DON'T FORGET JOTA

16TH. AND 17TH. OCTOBER.



COMING EVENTS

October:

6th. Ladies Night
Bluebell Hotel 6.30 PM.

8th. Natter Night
Ed. Centre Staff Room
Hopetoun St.

16th/17th.
JOTA - Pax Hill.

29th: BARG Meeting.

30th Hamvention Fox Hunts
Bray Raceway 3.30 PM.

30th. Hamvention 2M Scramble
6.45 PM.

30th. Hamvention Dinner
Western Hotel 7 PM.

31st. Hamvention
Bray Raceway 9.00 AM.

November

12th. Natter Night

12th/14th.
Japan Int. DX Phone
Contest

13th. ALARA YL/OM Contest
(Mixed)

26th. B. A. R. G. Meeting

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FOR SALE

1 x TS430 1 Owner
Ex. Cond.
\$1000.

1 x TS440 1 Owner
Ex. Cond.
\$1450.

Commodore C64
with Monitor
Pakratt C64 TNC
(all modes)
Tape Drive
\$300 the lot.

This equipment will
be at the Hamvention.

RON (VK3YHF) 054-397488

NOTICE BOARD



FOR SALE

YAESU FT901 DM De-Luxe Transceiver. 10 Bands, All mode, Digital readout, Memory, Keyer, and AC and DC power supplies built in, Vox etc. etc. Transistor, except driver and finals (6146's). 180 Watts.
A Rolls Royce of sets. All for \$900.00

YAESU MULTISCOPE Matches the FT901 above. \$250.00

ICOM IC701 Six band digital, broadband (no tuning up) Transceiver with twin VFO's, VOX, SWR built in etc. Fully maintained by ICOM. Unmarked and in original box with manual. \$850.00

ICOM POWER SUPPLY with loudspeaker. Matches the above IC701 \$250.00

ICOM DESK AND HAND MICROPHONES, extra cables and EXTENSION TERMINAL with 100kc crystal marker, linear switching and computer ports. \$100.00

KYORITSU QUALITY SWR METER.
52 and 72 ohm impedances. Like new. \$50.00

MICRONTA SWR and Field Strength meter. \$25.00

ADVANCE AUDIO GENERATOR. 15 cps to 50 Kc. AC \$40.00

DECADE BOX (Switches) Metered. Bridge accuracy. Almost an antique. \$40.00

TRIMAX POWER SUPPLY 50/50 and 65/65 volt. Filtered Heavy duty. \$10.00

SANTRON AC DESK CALCULATOR in box / manual \$10.00

ANSWERPHONE Unit A.C. \$10.00

TRANSFORMER 6"x9"x6". Umpteen taps. Would make a very heavy duty power supply. \$20.00

BATTERY CHARGER Old tungsten tube type. Tube is US but suitable large diode is included. Metered from 0 to 15 amps. \$25.00

HALLICRAFTERS Twin Dial Bandsread Receiver. 1.6 to 30 Mc. in metal case with inbuilt speaker. In good condition. \$150.00

KILN for copper enamelling. NEW. 190mm x 190mm x 130mm high. AC (ordinary power point) \$350.00
About 2 kilos of Glazes, Rods, Beads etc. Must go with kiln (not available separately). \$50.00

GEC AIR CONDITIONER 6600 BTU. Good condition. \$250.00

CONTACT: George Lance (VK3DS) 114 Brittain St.
Phone : (053) 323226

BUILDING ANTENNAS ? Check out Aluminium tubing at 'B & B' - 40 Mair St. East.

12 The following information is extracted from a letter to B.A.R.G. from Mr. Peter Young, the Melbourne Area Customer Service Manager for the Spectrum Management Agency.
 "As part of the reorganisation, the Victorian region is in the process of restructuring and the majority of services will be provided by the Melbourne Area Office. These arrangements will be effective as of Monday 6th. September '93, and all radiocommunications licensing and associated services previously provided by the District Radio Inspector Ballarat, will be handled by the Melbourne Office.
 My staff and I, particularly Mr. Ian McDonald, Manager Customer Service Team - Western Region, and his staff will be pleased to assist you and your organisation by providing information on licensing, frequency assignment and other related matters."

MELBOURNE

SPECTRUM MANAGEMENT AGENCY
 3RD.FLOOR, 6 RIVERSIDE QUAY
 SOUTH MELBOURNE VIC. 3205

PO BOX 6444
 ST.KILDA RD. CENTRAL
 MELBOURNE VIC. 3004
 PHONE: 03-685 3555

CANBERRA

SPECTRUM MANAGEMENT AGENCY
 PURPLE BUILDING
 BENJAMIN OFFICES, CHAN ST.
 BELCONNEN ACT 2617

PO BOX 78
 BELCONNEN ACT 2616
 PHONE: 06-256 5555



Spectrum Management Agency

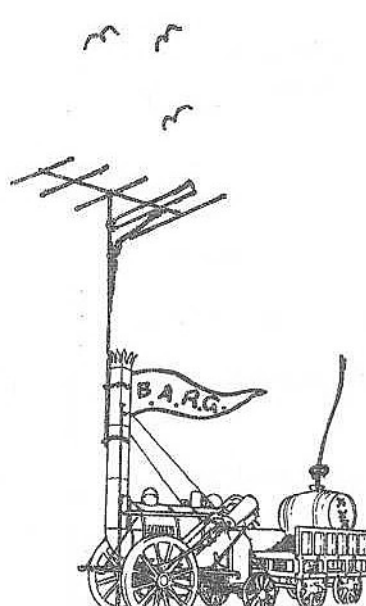
COMING TO THE HAMVENTION BY TRAIN ?

IF YOU ARE CONSIDERING COMING ALONG TO THE B.A.R.G. HAMVENTION BY TRAIN, CONTACT TOM (VK3DMK) ON 053-327234 (WORK) 053-355662 AH. OR CONTACT ANY CLUB MEMBER, AND WE WILL ARRANGE TO MEET YOUR TRAIN, PROVIDE TRANSPORT TO THE HAMVENTION SITE, AND RETURN YOU TO THE STATION IN TIME TO CATCH YOUR TRAIN FOR THE RETURN JOURNEY.

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AN EXPERT is one who knows more and more about less and less.



BI-MONTHLY NEWSLETTER OF THE BALLARAT AMATEUR RADIO GROUP INC.

B. A. R. G. NEWS

AFFIX LABEL HERE



3354

BALLARAT
 MAIL CENTRE
 P.O. BOX 1261

IF UNDELIVERABLE RETURN TO:

SURFACE MAIL